



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

02/25/2011

Kevin Powers
Assistant District Attorney, Norfolk County

Dear ADA Powers,


Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Stacey Desjardins.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Stacey Desjardins was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,


Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Executive Office of Health and Human Services

Department of Public Health

State Laboratory Institute

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPT

City or Department: RANDOLPH Police Dept Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: Detective Paul Smyth

Defendant(s) Name (last, first, initial):

[REDACTED]

To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

40 Separate packages of a yellowish rocklike
substance wrapped in a clear plastic wrap

8 Separate packages of a yellowish rocklike
substance wrapped in a clear plastic wrap

SUB 12 PB

10.29 gm

[REDACTED]

Received by:

[Signature]

Date:

7-6-10

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Stacey Lyn Desjardins

stacey.feiden@state.ma.us

EDUCATION

Master of Science—Forensic Science
University of New Haven; West Haven, Connecticut
May 2006

- Concentration: Criminalistics
- Certificate: Advanced Investigation

Bachelor of Arts—Chemistry
Monmouth College; Monmouth, Illinois
May 2004

- Graduated Cum Laude

EXPERIENCE

Chemist I
Massachusetts Department of Public Health; Jamaica Plain, Massachusetts
March 2009-present

- Analyze unknown substances submitted by Massachusetts Law Enforcement Agencies
- Operate, maintain, and interpret data from analytical equipment (Gas Chromatograph, analytical balance, microscope, Ultraviolet Spectrometer, Infrared Spectrometer)
- Provide expert testimony to local, state, and federal courts in Massachusetts

Teaching/Graduate Assistant
Monmouth College Chemistry Department
University of New Haven Forensic Science Department
January 2001-May 2006

- Supervised labs and answered student questions
- Performed demonstrations using forensic techniques and chemicals

Additional work experience and references available upon request

TRAINING

2009: Multijurisdictional Counterdrug Task Force Training on Current Drug Trends

2009: Six week training with Senior Staff at the Massachusetts Department of Public Health Drug Analysis Laboratory—appointed Assistant Analyst

2005: Internship with the New Hampshire State Crime Lab

COURSEWORK

Biomedical Methods of Forensic Science, Criminal Procedure, Forensic Microscopy, Advanced Criminalistics I and II, Forensic Toxicology, Advanced Investigation I and II, Physical Analysis in Forensic Science, Organic Chemistry I and II, General Chemistry, Analytical Chemistry I and II, Physical Chemistry I, II, and III, Biochemistry, Advanced Inorganic Chemistry

No. [REDACTED]

Date Analyzed: 10-01-10

City: Randolph Police Dept.

Officer: Detective PAUL SMYTH

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 12 Cont: pb

Date Rec'd: 07/06/2010

No. Analyzed: 2

Gross Wt.: 10.29 ✓

Net Weight: 2.82g

Tests: 12 SLD

• UASD

Ⓚ Prelim: cocaine

Findings: cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY

Randolph

ANALYST

SLD

No. of samples tested:

2

Evidence Wt.

✓

PHYSICAL DESCRIPTION:

- signed & sealed
- off white chunky substance
in 12 pbs

Gross Wt (12):

4.2593g

Gross Wt (): _____

Pkg. Wt: _____

Net Wt:

2.8224g →

PRELIMINARY TESTSSpot Tests

2 Cobalt Thiocyanate () H+ ⊕
2 Marquis ⊖
2 Froehde's ⊖
2 Mecke's ⊖

Microcrystalline Tests

2 Gold Chloride ⊕
2 TLTA () H+ ⊕

OTHER TESTS**PRELIMINARY TEST RESULTS**

RESULTS cocaine

DATE

9-28-10

(K)

GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS OPERATOR

ASD

DATE

10-1-10

Sample #:



2 extra pbs = 2.81g

samples tested: 2

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.3619g	0.0774g	0.2845g	26			
2	0.2544g	0.0685g	0.1859g	27			
3				28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations:

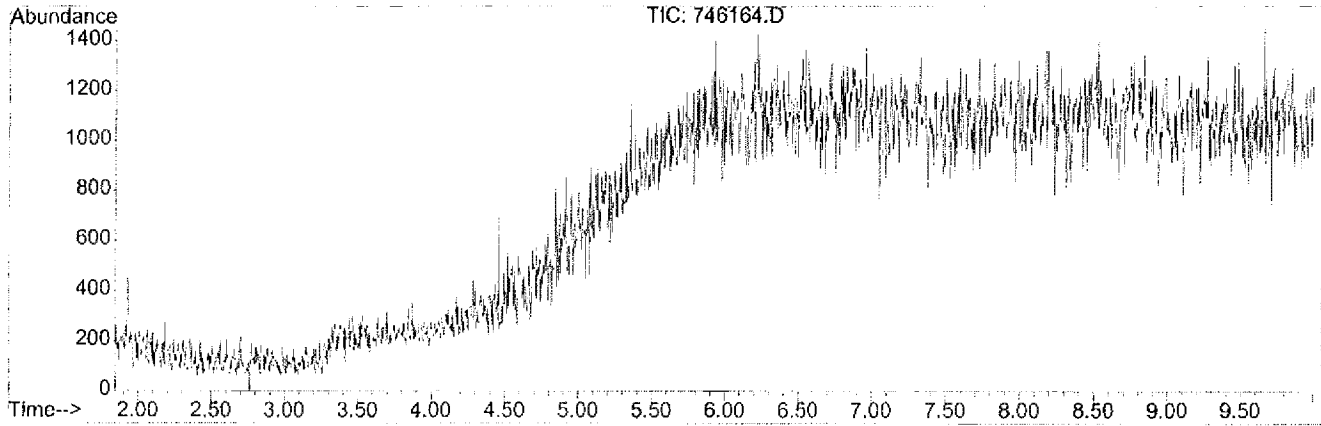
$$\begin{aligned}\text{Total net wt} &= 0.4704\text{g} \\ \div 2 &= 0.2352 \\ \times 12 &= 2.8224\text{g}\end{aligned}$$

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746164.D
Operator : ASD
Date Acquired : 1 Oct 2010 7:13
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE

1 ASD
2-25-11



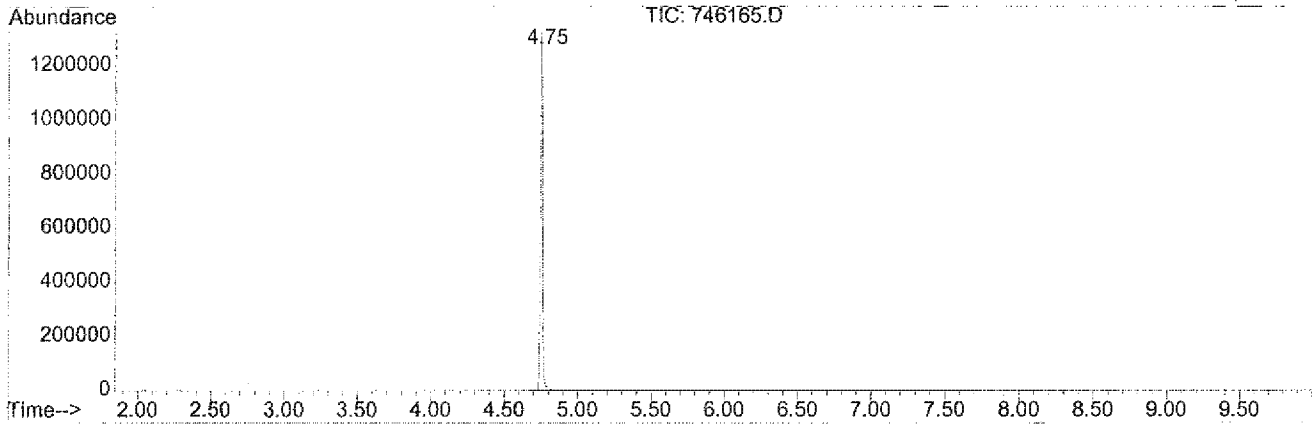
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746165.D
 Operator : ASD
 Date Acquired : 1 Oct 2010 7:27
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 65
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.749	1312319	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

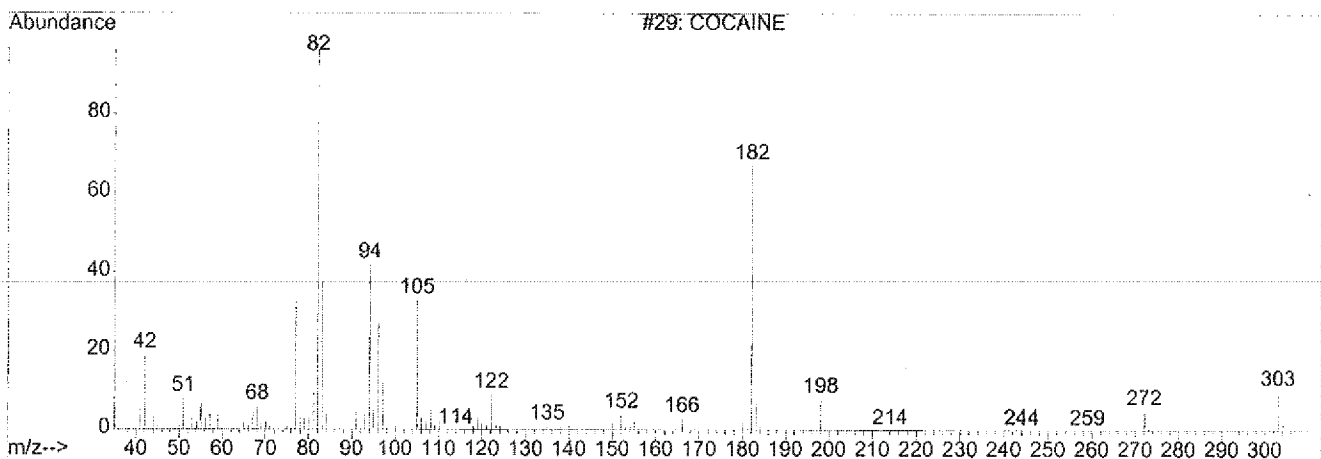
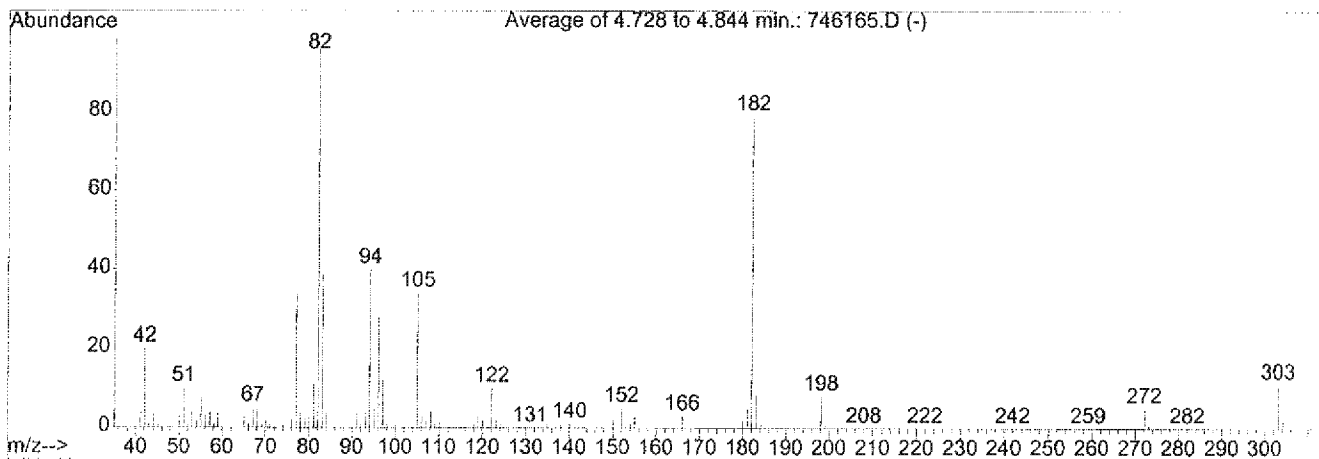
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746165.D
Operator        : ASD
Date Acquired   : 1 Oct 2010   7:27
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 65
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

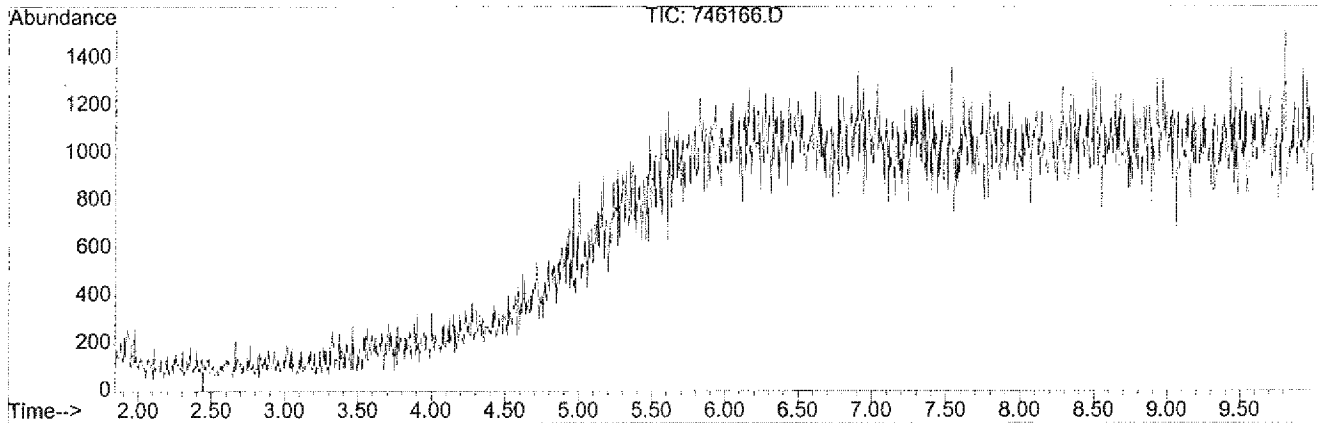
PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746166.D
Operator : ASD
Date Acquired : 1 Oct 2010 7:40
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



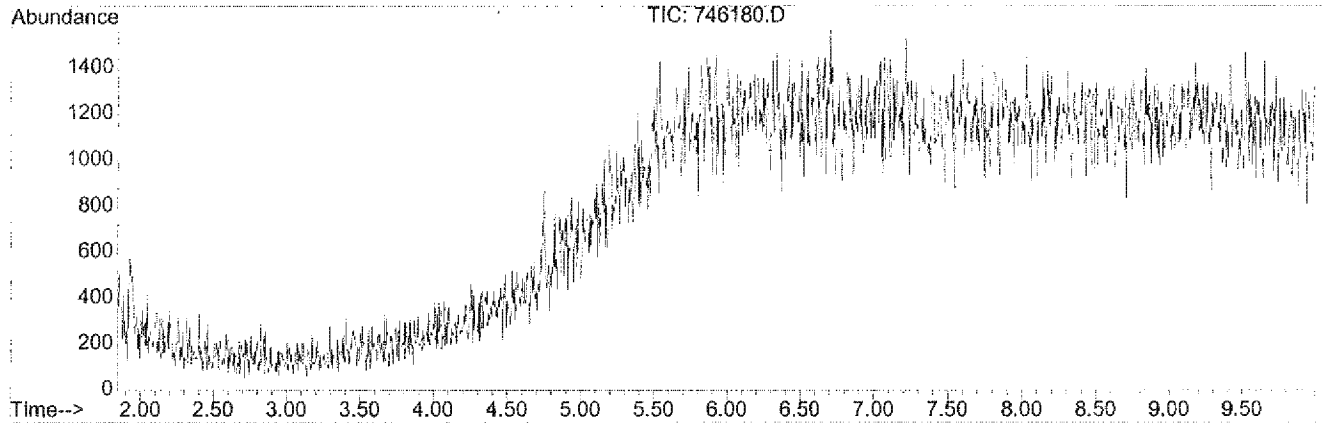
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746180.D
Operator : ASD
Date Acquired : 1 Oct 2010 10:51
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



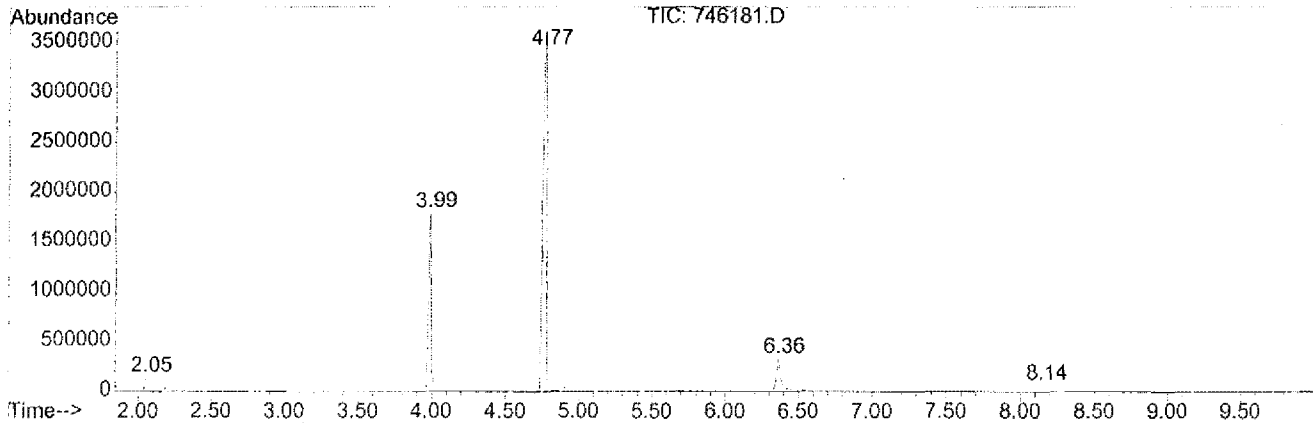
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746181.D
 Operator : ASD
 Date Acquired : 1 Oct 2010 11:04
 Sample Name : XXXXXXXXXX
 Submitted by : SLD
 Vial Number : 81
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.052	215638	2.18	3.38
3.988	2435590	24.57	38.23
4.771	6370711	64.26	100.00
6.363	736867	7.43	11.57
8.140	155379	1.57	2.44

Area Percent / Library Search Report

Information from Data File:

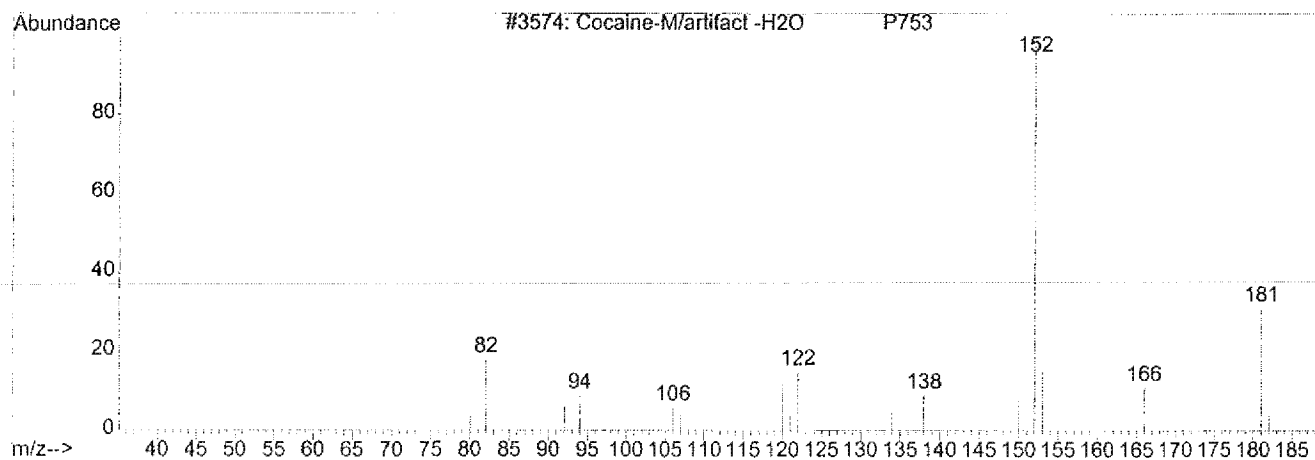
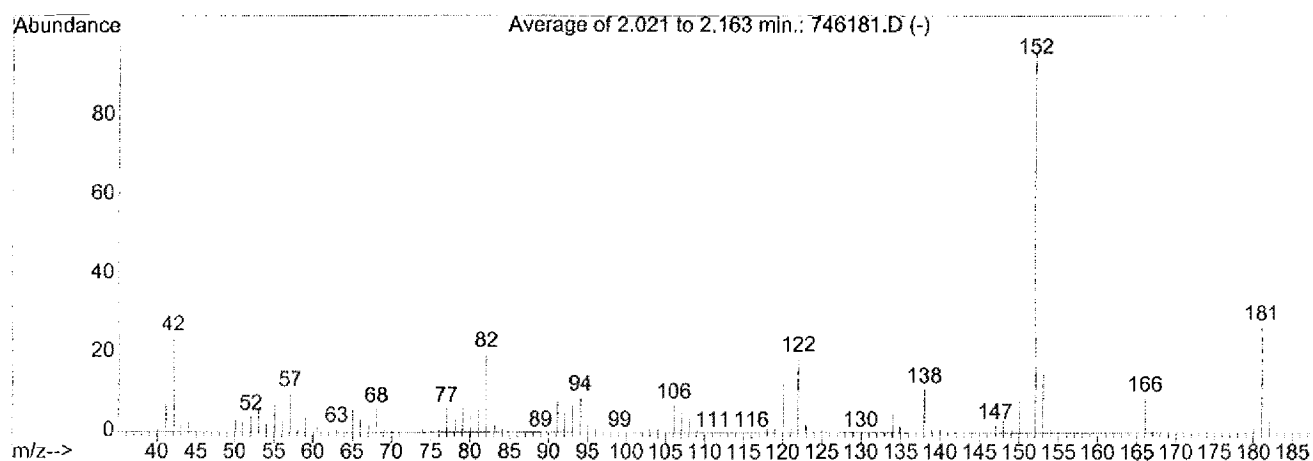
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746181.D
Operator        : ASD
Date Acquired   : 1 Oct 2010 11:04
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 81
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.05	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	97
		Metipranolol-M/artifact AC	000000-00-0	38
		MDA-M (desmethylenyl-methyl-) ME @	000000-00-0	28



Area Percent / Library Search Report

Information from Data File:

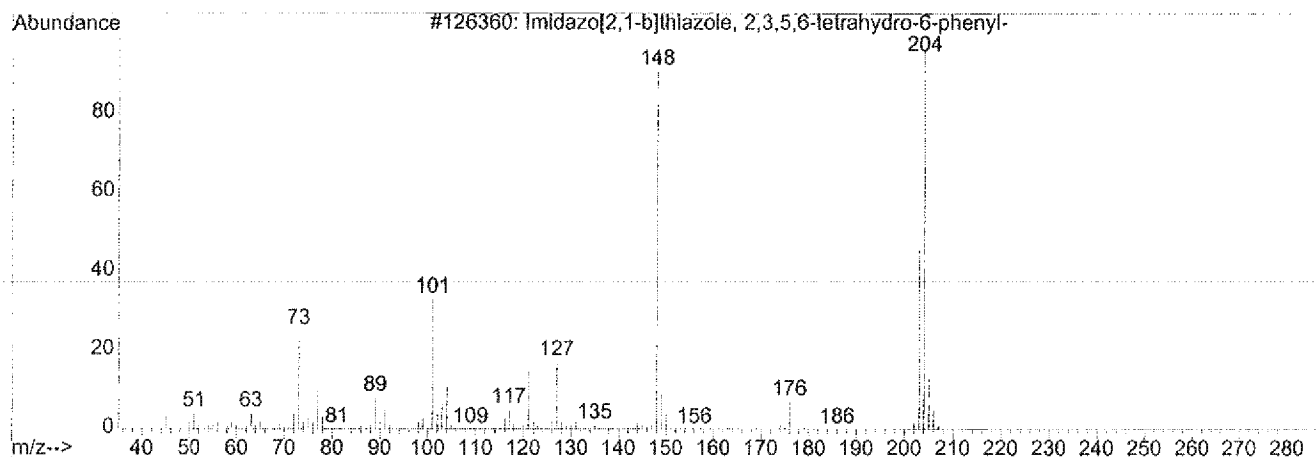
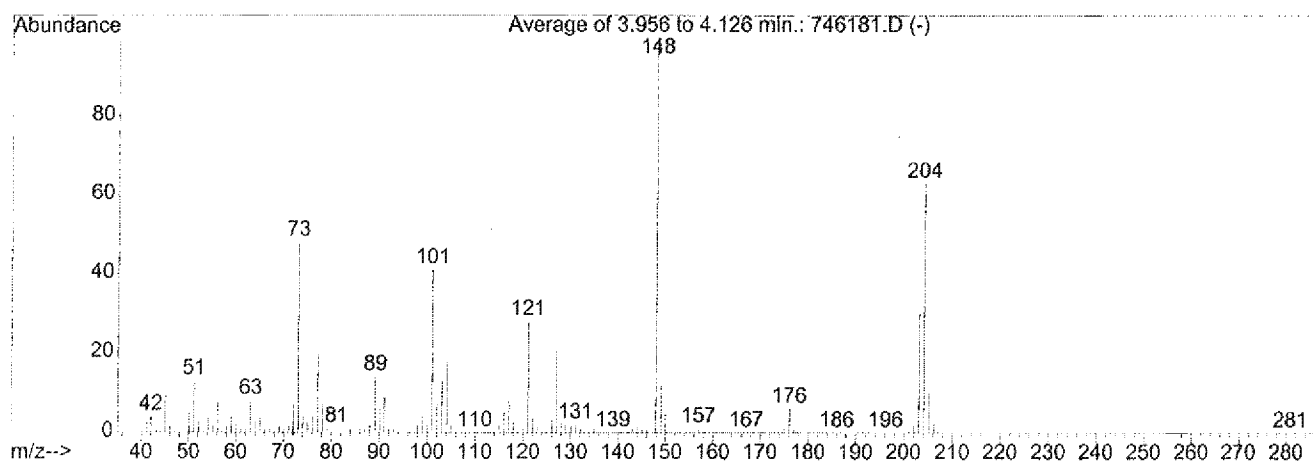
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746181.D
Operator        : ASD
Date Acquired   : 1 Oct 2010 11:04
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 81
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.99	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Levamisole Hydrochloride	016595-80-5	98



Area Percent / Library Search Report

Information from Data File:

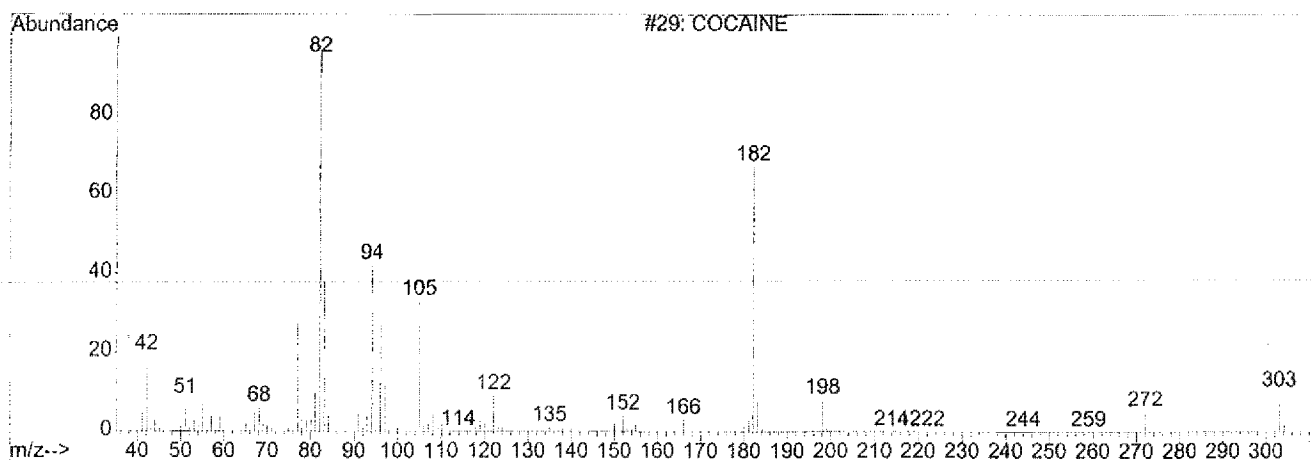
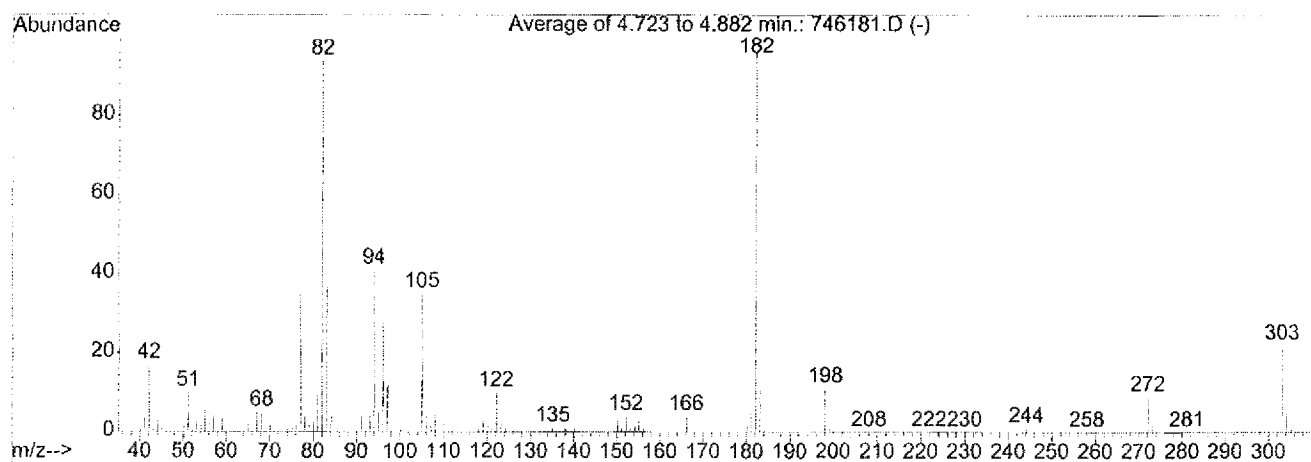
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746181.D
Operator        : ASD
Date Acquired   : 1 Oct 2010 11:04
Sample Name     : 
Submitted by    : SLD
Vial Number     : 81
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	4.77	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

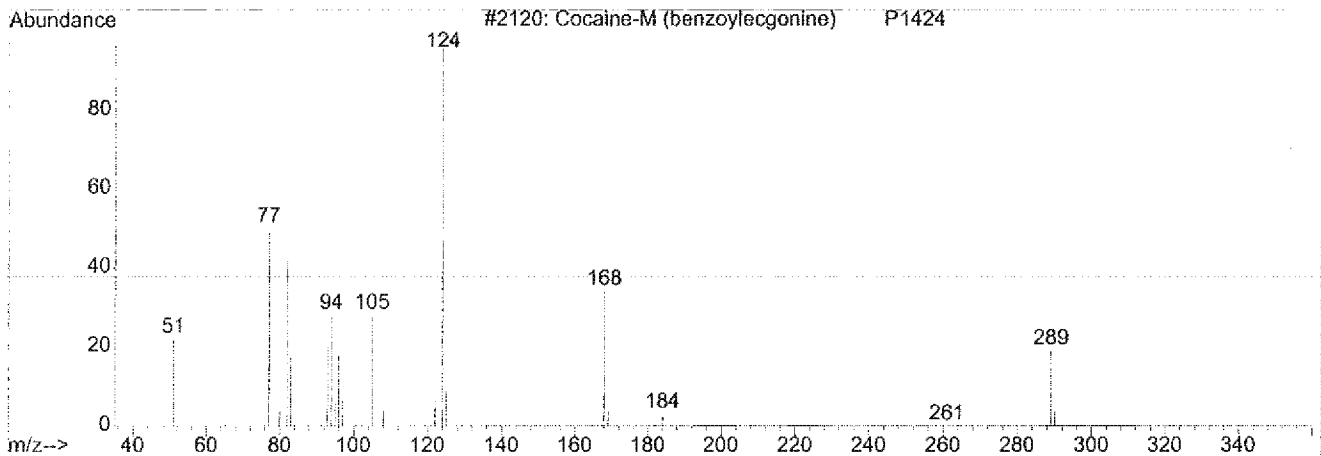
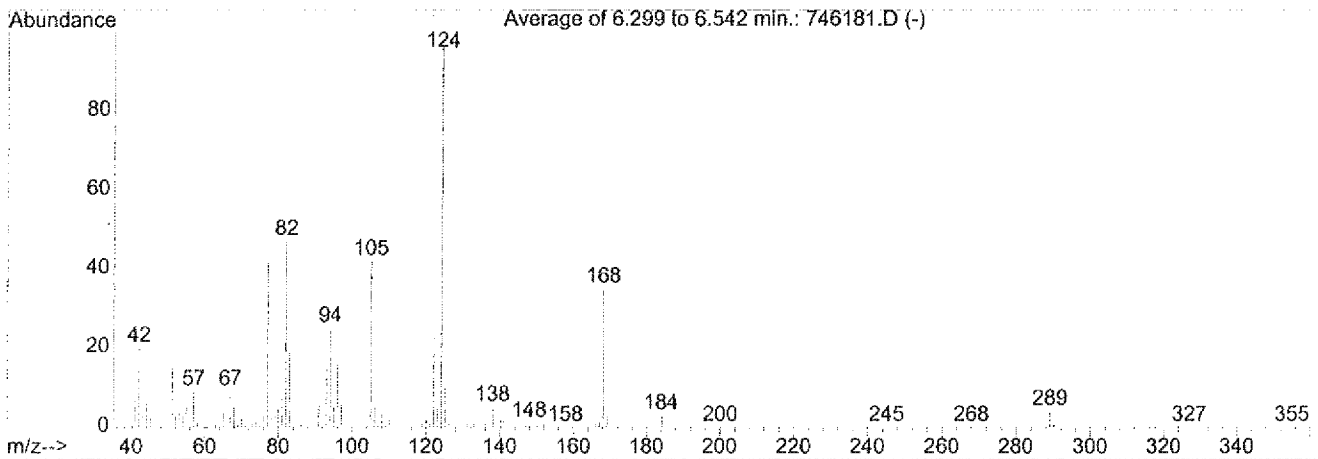
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746181.D
Operator        : ASD
Date Acquired   : 1 Oct 2010 11:04
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 81
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	6.36	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (benzoylecgonine)	000519-09-5	97
		Atropine AC	@ 000000-00-0	40
		Mequitazine-M (sulfone)	000000-00-0	12



Area Percent / Library Search Report

Information from Data File:

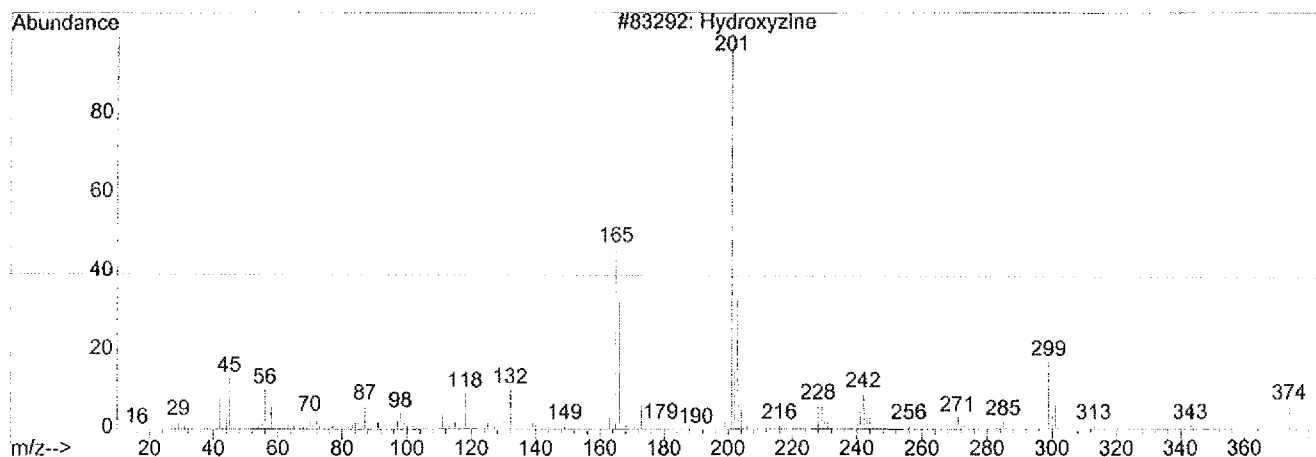
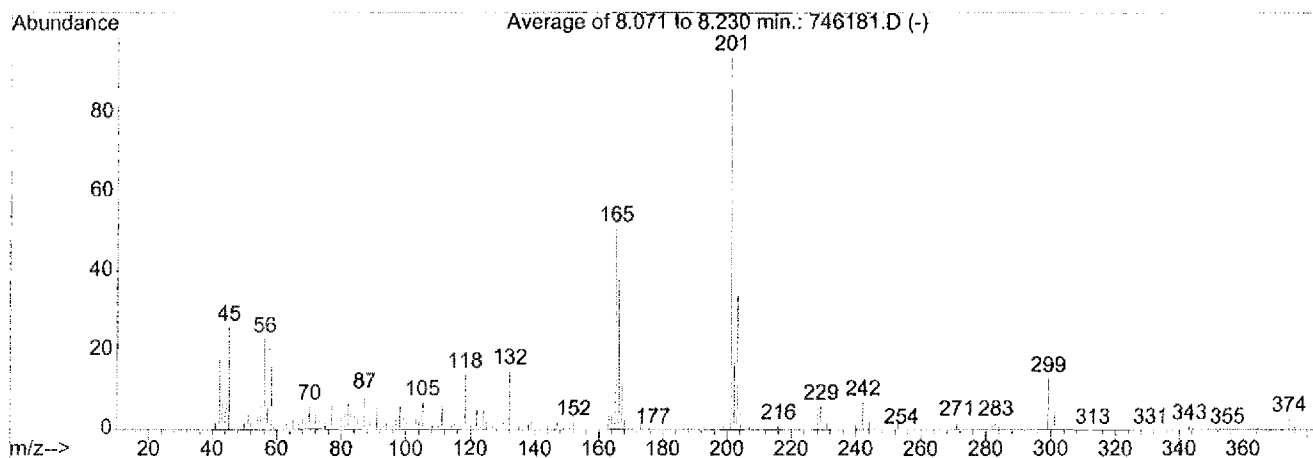
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746181.D
Operator        : ASD
Date Acquired   : 1 Oct 2010  11:04
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 81
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

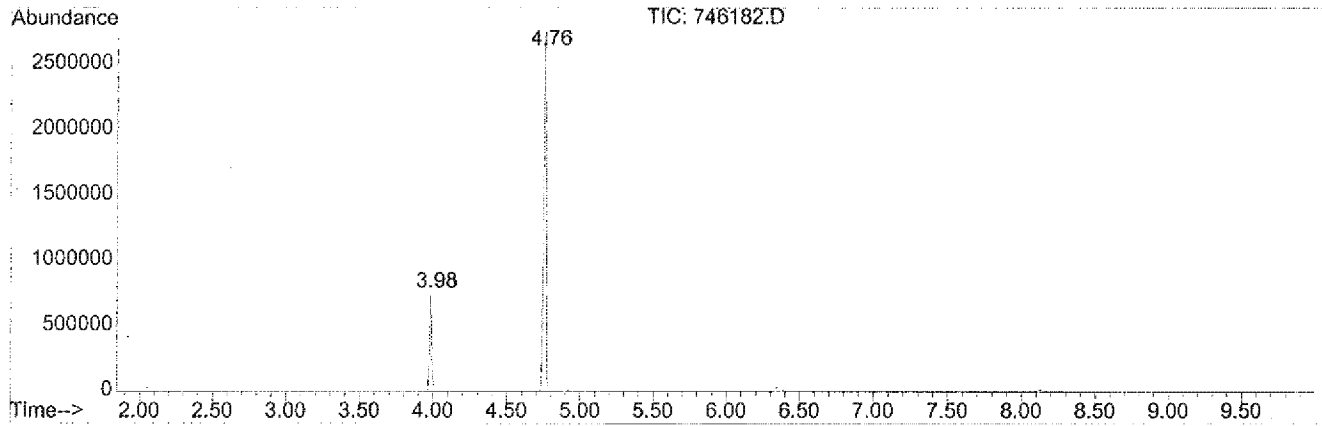
PK#	RT	Library/ID	CAS#	Qual
5	8.14	C:\DATABASE\NIST98.L		
		Hydroxyzine	000068-88-2	91
		Hydroxyzine	000068-88-2	90
		Hydroxyzine	000068-88-2	87



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746182.D
Operator : ASD
Date Acquired : 1 Oct 2010 11:18
Sample Name : XXXXXXXXXX
Submitted by : SLD
Vial Number : 82
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.981	826405	20.52	25.82
4.759	3200343	79.48	100.00

Area Percent / Library Search Report

Information from Data File:

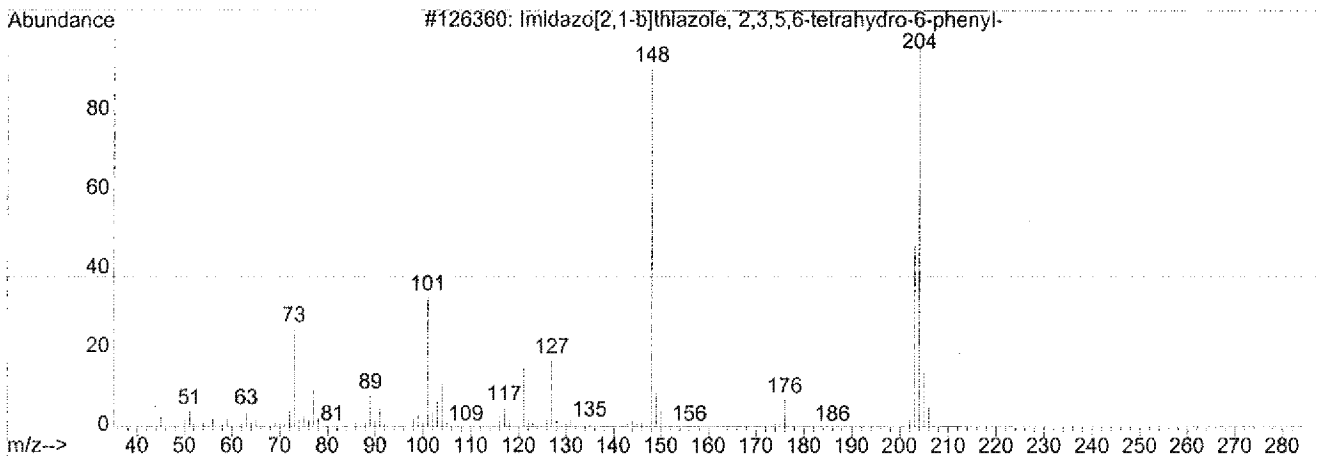
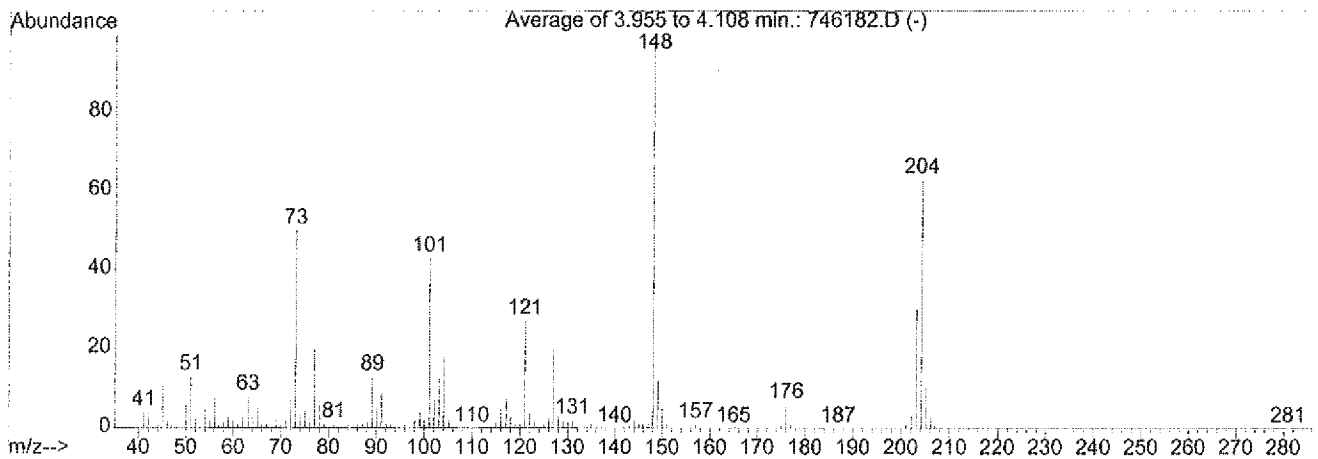
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746182.D
Operator        : ASD
Date Acquired   : 1 Oct 2010 11:18
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 82
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	3.98	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



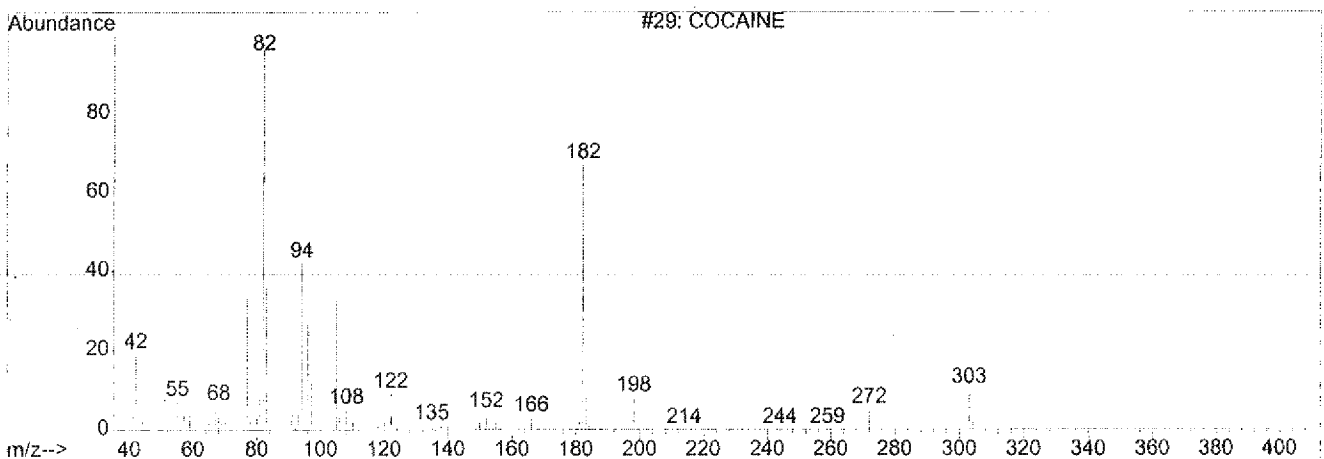
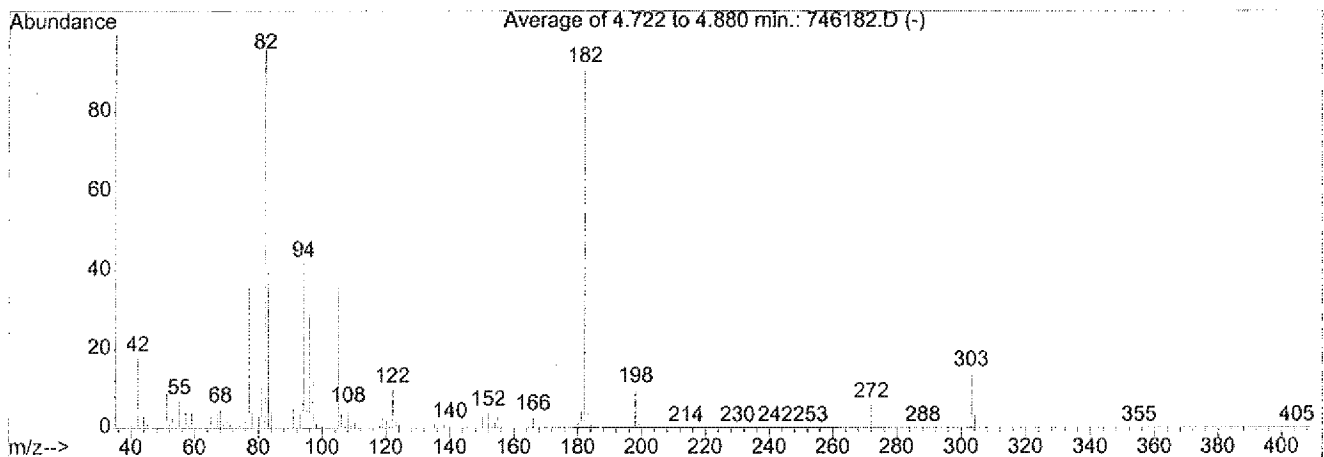
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746182.D
Operator : ASD
Date Acquired : 1 Oct 2010 11:18
Sample Name : XXXXXXXXXX
Submitted by : SLD
Vial Number : 82
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

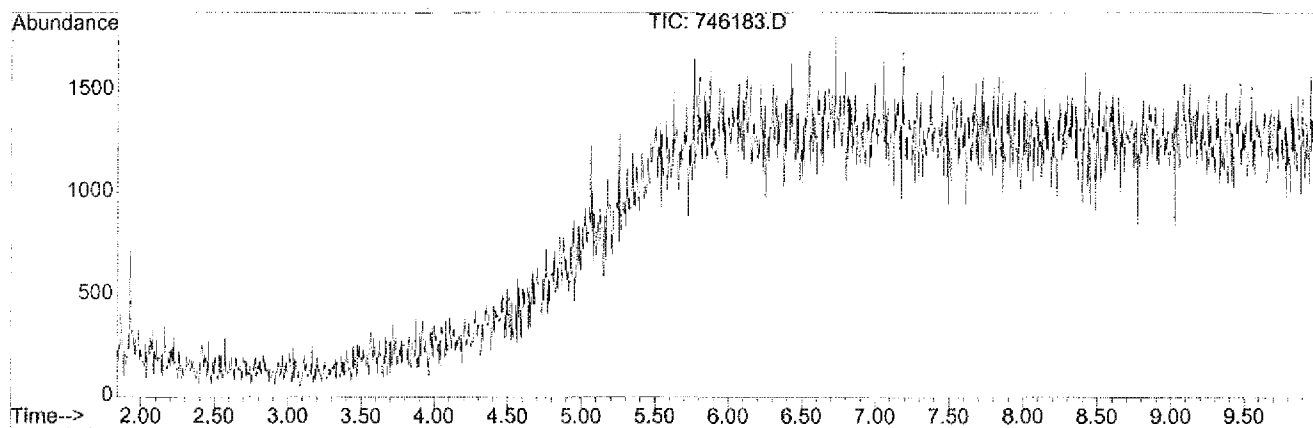
PK#	RT	Library/ID	CAS#	Qual
2	4.76	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746183.D
Operator : ASD
Date Acquired : 1 Oct 2010 11:31
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



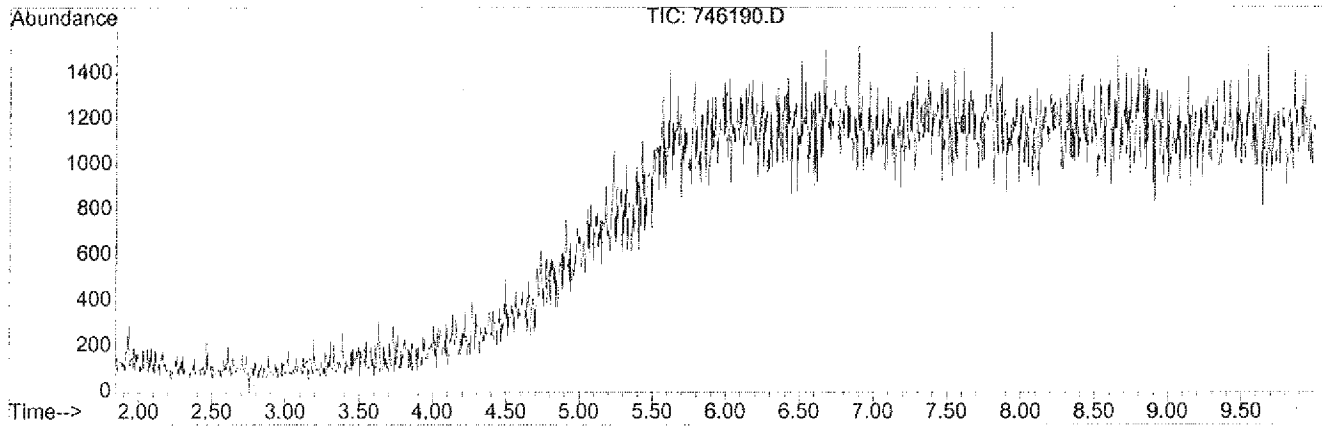
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746190.D
Operator : ASD
Date Acquired : 1 Oct 2010 13:07
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



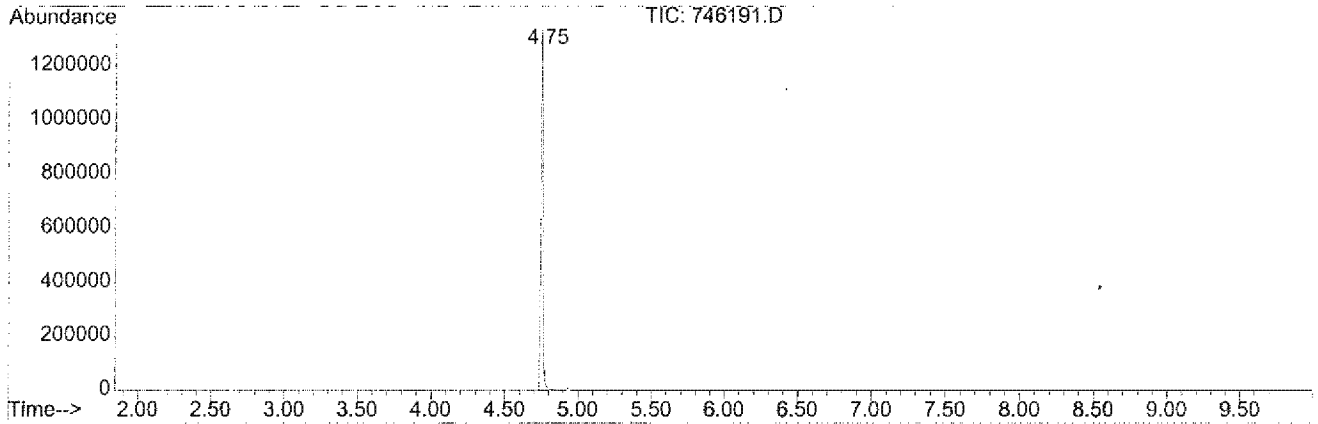
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746191.D
Operator : ASD
Date Acquired : 1 Oct 2010 13:21
Sample Name : COCAINE STD
Submitted by :
Vial Number : 65
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.749	1341285	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

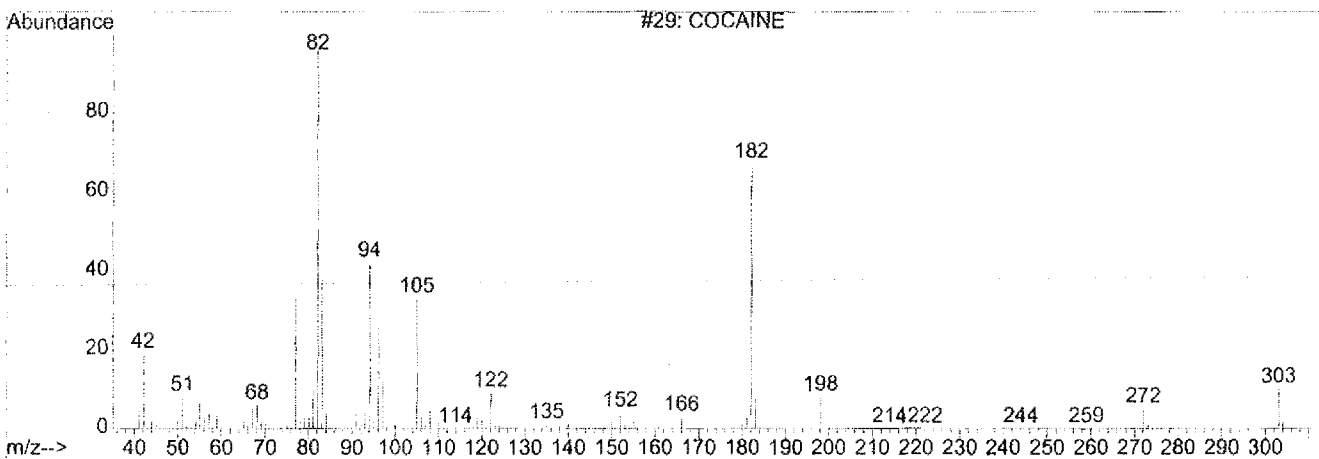
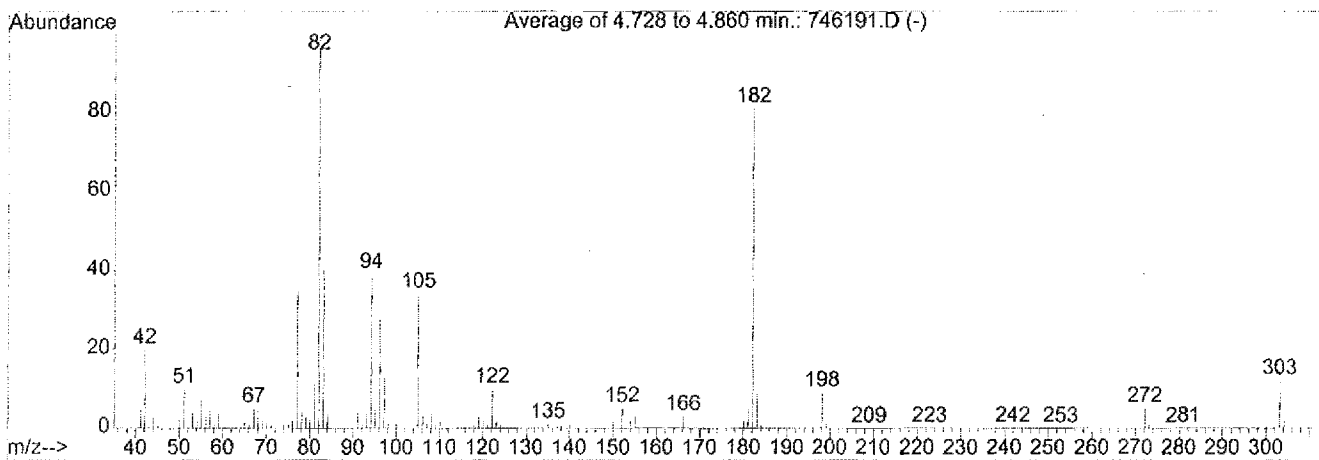
```

File Name       : F:\Q3-2010\SYSTEM4\09_30_10\746191.D
Operator        : ASD
Date Acquired   : 1 Oct 2010 13:21
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 65
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI             Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

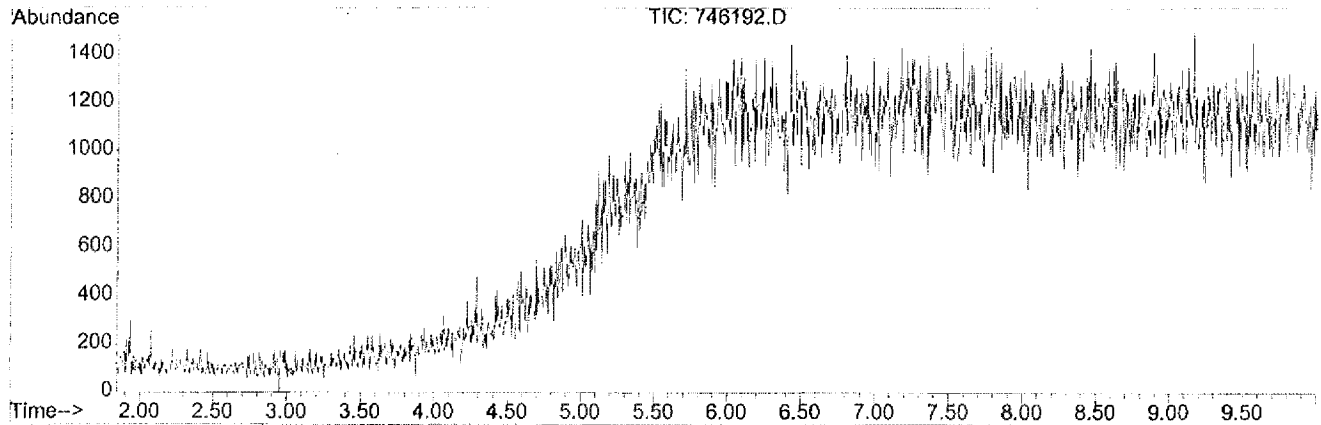
PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM4\09_30_10\746192.D
Operator : ASD
Date Acquired : 1 Oct 2010 13:35
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS